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PB/5-21215C

APPLICATION NO. 10/016,236 **APPLICANT** Ryals, et al.

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	EXAMINER INITIAL DOCUMENT NUMBER		U.S. PATENT DOCUMENTS			APR 1 1 2002		
			DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	2 12	AA	5,523,311	6/4/96	Schurter et al.	514	TEGAT CEN	5R 4640/2900
-/	1	AB	5,614,395	3/25/97	Ryals et al.	435	6	1/13/94
	1	AC	5,780,469	7/14/98	Ruess	514	237.5	12/6/96
		AD	5,945,437	8/31/99	Ruess et al.	514	361	7/16/97
A	To a	AE	6,335,355	1/1/02	Ruess et al.	514	361	12/22/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRAN	SLATION NO
ANK	AF	0 534 858	3/31/93	EPO		- /		
)	AG	WO 95/19443	7/20/95	PCT				
tel	АН	WO 94/16077	7/24/94	PCT				
700							*	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

ALK	. Al	Adaskaveg and Hine, Copper Tolerance and Zinc Sensitivity of Mexican Strains of Xanthomonas campestris pv. vesicatoria, Causal Agent of Bacterial Spot of Pepper Plant Disease, Vol. 69 (1985) 993-996
	AJ	Bi, et al., Hydrogen peroxide does not function downstream of salicylic acid in the induction of PR protein expression The Plant Journal, Vol. 8(2) (1995) 235-245
	AK	Bleecker, et al., Insensitivity to Ethylene Conferred by a Dominant Mutation in Arabidopsis thaliana Science, Vol. 241 (1988) 1086-1089
	AL	Börner, et al., Influence of the systemic fungicide metalaxyl on glyceollin accumulation in soybean infected with Phytophthora megasperma f. sp. glycinea Physiological Plant Pathology, Vol. 23 (1983) 145-152
	АМ	Bouchez et al., A new YAC library for genome mapping in Arabidopsis, Abstract, 6 th International Conference on Arabidopsis Research (1995)
W.	AN	Bowling, et al., A Mutation in Arabidopsis That Leads to Constitutive Expression of Systemic Acquired Resistance The Plant Cell, Vol. 6 (1994) 1845-1857

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

MENT OF COMMERCE U.S. DEF PATENT AND TRADEMARK OFFICE

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Group TBA

MAR 2 8 2002

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

RECEIVED

<u> </u>	TRADE	APR 1 1 2002
4011	AO	Bowling, et al., The cpr5 Mutant of Arabidopsis Expresses Both NPR1-Dependent and NPR1-
1000	AU	The Plant Cell, Vol. 9 (1997) 1573-1584 TECH CENTER 1600/29
7	AP	Brockman, et al., Coupling of a Signal Response Domain in I/B(to Multiple Pathways for NF-/B Activation Molecular and Cellular Biology, Vol. 15 (1995) 2809-2818
	AQ	Brown, et al., Control of I/B-(Proteolysis by Site-Specific, Signal-Induced Phosphorylation Science, 267 (1995) 1485-1488
	AR	Büschges, et al., The Barley MIo Gene: A Novel Control Element of Plant Pathogen Resistance Cell, Vol. 88 (1997) 695-704
	AS	Cameron, et al., Biologically induced systemic acquired resistance in Arabidopsis thaliana The Plant Journal, Vol. 5(5): 715-725 (1994)
	AT	Cao, et al., Characterization of an Arabidopsis Mutant That Is Nonresponsive to Inducers of Systemic Acquired Resistance The Plant Cell, Vol. 6 (1994) 1583-1592
	AU	Cao, et al., The Arabidopsis NPR1 Gene that Controls Systemic Acquired Resistance Encodes a Novel Protein Containing Ankyrin Repeats Cell, Vol. 88 (1997) 57-63
	AV	Carvalho, et al., Suppression of -1,3-Glucanase Transgene Expression in Homozygous Plants The European Molecular Biology Organization Journal, Vol. 11 (1992) 2595-2602
	AW	Cartwright, et al., Chemical activation of host defence mechanisms as a basis for crop protection Nature, Vol. 267: 511-513 (1977)
	AX	Century et al., NDR1, a locus of Arabidopsis thaliana that is required for disease resistance to both a bacterial and a fungal protein Proceedings of the National Academy of Sciences, Vol. 92 (1995) 6597-6601
	AY	Creusot, et al., The CIC library: a large insert YAC library for genome mapping in Arabidopsis thaliana The Plant Journal, Vol. 8(5) (1995) 763-770
	AZ	Dangl, et al., Death Don't Have No Mercy: Cell Death Programs in Plant-Microbe Interactions The Plant Cell, Vol. 8 (1996) 1793-1807
210	ВА	Delaney, et al., A Central Role of Salicylic Acid in Plant Disease Resistance Science, Vol. 266 (1994) 1247-1250
- '	1	

EXAMINER

DATE CONSIDERED

*EXAMINER: / Initial of reference considered, whether or not citation is in conformance with MPEP 609: Drawa line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

TMENT OF COMMERCE U.S. DEP PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

PB/5-21215C APPLICATION NO. 10/016,236 **APPLICANT** Ryals, et al. **FILING DATE**

December 12, 2001

CONFIRMATION NO. TBA

Group TRA

RECEIVED

IER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

APR 1 1 2002 Delaney, et al., Arabidopsis signal transduction mutants defective in chemically and biologically BB induced disease resistance TECH CENTER 1600/2900 Abstract, 6th International Meeting on Arabidopsis Research, (1995) Delaney, et al., Arabidopisis signal transduction mutant defective in chemically and biologically BC induced disease resistance Proceedings of the National Academy of Sciences, Vol. 92 (1995) 6602-6606 Delaney, T.P., Genetic Dissection of Acquired Resistance to Disease BD Plant Physiology, Vol. 113 (1997) 1-12 de Martin, et al., Cytokine-inducible expression in endothelial cells of an I/B (-like gene is regulated by BE NF/B The European Molecular Biology Organization Journal, Vol. 12 (1993) 2773-2779 de Martin et al., Intron-exon structure of the porcine I/B(-encoding gene... BF Gene, Vol. 152 (1995) 253-255 Dietrich, et al., Arabidopsis Mutants Simulating Disease Resistance Response BG Cell, Vol. 77 (1994) 565-577 Dong et al., U.S. Provisional Application No. 60/023.851, filed August 9, 1996 BH Dong et al., U.S. Provisional Application No. 60/035,166, filed January 10, 1997 ВΙ Draper, J., Salicylate, superoxide synthesis and cell suicide in plant defence BJ Trends in Plant Science, Vol. 2 (1997) 162-165 Ecker and Davis, Plant defense genes are regulated by ethylene BK Proceedings of the National Academy of Sciences, Vol. 84 (1987) 5202-5206 Elledge et al., \(\lambda YES: Amultifunctional cDNA expression vector for the isolation of genes by BL complementation of yeast and Escherichia coli mutations Proceedings of the National Academy of Sciences, USA, Vol. 88 (1991) 1731-1735 Fisher and Hayes, Mode of Action of the Systemic Fungicides Furalaxyl, Metalaxyl and Ofurace BM Pesticide Science, Vol. 13 (1982) 330-339 Friedrich et al., A benzothiadiazole derivative induces systemic acquired resistance in tobacco The Plant Journal, Vol. 10 (1996) 61-70 BN

EXAMINER

Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in

conformance and not considered. Include a copy of this form with the next communication to applicant.

U.S. DEFENTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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December 12, 2001

CONFIRMATION NO. TBA

RECEIVED

APR 1 1 2002

MAR 2 8 2002

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.) Gaffney, et al., Requirement of Salicylic Acid for the Induction of Systemic Acquired Resistance BO Science Vol. 261 (1993) 754-756 Gatz, C., Chemical Control of Gene Expression BP Annual Review Plant Physiology and Plant Molecular. Biology, Vol. 48 (1997) 89-108 Glazebrook, et al., Isolation of Arabidopsis Mutants With Enhanced Disease Susceptibility by Direct BQ Screening Genetics, Vol. 143 (1996) 973-982 Görlach, et al., Benzothiadiazole, a Novel Class of Inducers of Systemic Acquired Resistance, BR Activates Gene Expression and Disease Resistance in Wheat The Plant Cell, Vol. 8 (1996) 629-643 Greenberg, et al., Programmed Cell Death in Plants: A Pathogen-Triggered Response Activated BS Coordinately with Multiple Defense Functions Cell, Vol. 77 (1994) 551-563. Guest, D.I., Modification of defence responses in tobacco and capsicum following treatment with Fosetyl-Al [Aluminium tris (o-ethyl phosphonate)] BT Physiological Plant Pathology, Vol. 25 (1984) 125-134 Guzmán and Ecker, Exploiting the Triple Response of Arabidopsis To Identify Ethylene-Related BU Mutants Plant Cell, Vol. 2 (1990) 513-523 Hebsgaard et al., Splice site prediction in Arabidopsis thaliana pre-mRNA by combining local and BV global sequence information Nucleic Acids Research, Vol. 24 (1996) 3439-3452 Henniq, et al., Pathogen, salicylic acid and developmental dependent expression of a beta-1,3-BW glucanase/GUS gene fusion in transgenic tobacco plants The Plant Journal, Vol. 4 (1993) 481-493 Hunt, et al., Recent advances in systemic acquired resistance research BX Gene, Vol. 179 (1996) 89-95 Ip, et al., Dif, a dorsal-Related Gene That Mediates an Immune Response in Drosophila BY Cell, Vol. 75 (1993) 753-763 Jones, et al., Population Dynamics of Xanthomonas campestris pv. vesicatoria on Tomato Leaflets ΒZ Treated with Copper Bactericides Phytopathology, Vol. 81 (1991) 714-719 Keen et al., Effects of Glyphosate on Glyceollin Production and the Expression of Resistance to CA Phytophthora megasperma f. sp. glycinea in Soybean Phytopathology, Vol. 72 (1982) 1467-1470

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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CONFIRMATION NO. TBA

Group

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)
CB	Kessmann, et al., Induction of Systemic Acquired Disease Resistance in Plants by Chemicals Annual Review of Phytopathology. Vol. 32 (1994) 439-459
СС	Király, et al., <i>Hypersensitivity as a Consequence, Not the Cause, of Plant Resistance to Infection Nature</i> , Vol. 239 (1972) 456-458
CD	Kopp and Ghosh, Inhibition of NF-LB by Sodium Salicylate and Aspirin Science, Vol. 265 (1994) 956-959
CE	Langcake and Wickens, Studies on the action of the dichlorocyclopropanes on the host-parasite relationship in the rice blast disease Physiological Plant Pathology, Vol. 7 (1975) 113-126
CF	Lawton, et al., "The Molecular Biology of Systemic Acquired Resistance", in: B. Fritig and M. Legrand (eds.) <i>Mechanisms of Plant Defense Responses</i> , (Netherlands, Kluwer Academic Publishers, 1993) 422-432
CG	Lawton, et al., Systemic Acquired Resistance in Arabidopsis Requires Salicylic Acid but Not Ethylene Molecular Plant-Microbe Interactions, Vol. 8(1995) 863-870
СН	Lawton, et al., Benzothiadiazole induces disease resistance in Arabidopsis by activation of the systemic acquired resistance signal transduction pathway The Plant Journal, Vol. 10 (1996) 71-82
СІ	Lemaitre, et al., The Dorsoventral Regulatory Gene Cassette spätzle/Toll/cactus Controls the Potent Antifungal Response in Drosophila Adults Cell, Vol. 86 (1996) 973-983
CJ	Linthorst et al., Constitutive expression of pathogenesis-related proteins PR-1, GRP, and PR-S in tobacco has no effect on virus infection Plant Cell, Vol. 1 (1989) 285-291
СК	Lister and Dean, Recombinant inbred lines for mapping RFLP and phenotypic markers in Arabidopsis thaliana The Plant Journal, Vol. 4 (1993) 745-750
CL	Liu, et al., Generation of a high-quality P1 library of Arabidopsis suitable for chromosome walking The Plant Journal, Vol. 7 (1995) 351-358
СМ	Maher, et al., Increased disease susceptibility of transgenic tobacco plants with suppressed levels of preformed phenylpropanoid products Proceedings of the National Academy of Sciences, USA, Vol. 91 (1994) 7802-7806
RX CN	Mauch-Mani, et al., Systemic Acquired Resistance in Arabidopsis thaliana Induced by a Predisposing Infection with a Pathogenic Isolate of Fusarium oxysporum Molecular Plant-Microbe Interactions, Vol. 7 (1994) 378-383

EXAMINER

Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

MENT OF COMMERCE U.S. DEP PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

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ATTY. D.K PB/5-21215C APPLICATION NO. 10/016,236 **APPLICANT** Ryals, et al. FILING DATE December 12, 2001

CONFIRMATION NO. TBA

Group

APR 1 1 2002

Delc	COL	Manni, et al., Production of Salicylic Acid Precursors Is a Major Function of Prientine 1000, Arimonia-Lyase in the Resistance of Arabidopsis to Peronospora parasitica The Plant Cell, Vol. 8 (1996) 203-212
	СР	Métraux, et al., Increase in Salicylic Acid at the Onset of Systemic Acquired Resistance in Cucumber Science, Vol. 250 (1990) 1004-1006
1	cq	Michaely and Bennett, "The ANK repeat: a ubiquitous motif involved in macromolecular recognition", Trends in Cell Biology, Vol. 2 (1992 127-129)
	CR	Mindrinos, et al., The A. thaliana Disease Resistance Gene RPS2 Encodes a Protein Containing a Nucleotide-Binding Site and Leucine-Rich Repeats Cell, Vol. 78 (1994) 1089-1099
	cs	Napoli, et al., Introduction of a chimeric chalcone synthase gene into Petunia results in reversible co- suppression of homologous genes in trans. The Plant Cell, Vol. 2 (1989) 278-289
	СТ	Nature Created The Concept, The Plant Activator, Ciba-Geigy AG Product Literature (1996)
	cu	Nemestothy and Guest, Phytoalexin accumulation, phenylalanine ammonia lyase activity and ethylene biosynthesis in fosetyl-Al treated resistant and susceptible tobacco cultivars infected with Phytophthora nicotianae var. nicotianae Physiological and Molecular Plant Pathology Vol. 37 (1990) 207-219
	cv	Pallas, et al., Tobacco plants epigenetically suppressed in phenylalanine ammonia-lyase expression do not develop systemic acquired resistance in response to infection by tobacco mosaic virus The Plant Journal, Vol. 10 (1996) 281-293
	cw	Parker, et al., Characterization of eds1, a Mutation in Arabidopsis Suppressing Resistance to Peronospora parasitica Specified by Several Different RPP Genes The Plant Cell, Vol. 8 (1996) 2033-2046
1	сх	Payne, et al., Isolation of the genomic clone for pathogenesis-related protein 1a from Nicotiana tabacum cv. Xanthi-nc Plant Molecular Biology, Vol. 11 (1988) 89-94
	CY	Ryals, et al., Signal transduction in systemic acquired resistance Proceedings of the National Academy of Sciences USA, Vol. 92 (1995) 4202-4205
	cz	Ryals, et al., Systemic Acquired Resistance The Plant Cell, Vol. 8 (1996) 1809-1819
 U/L	DA	Ryals, et al., The Arabidopsis NIM1 Protein Shows Homology to the Mammalian Transcription Factor Inhibitor IkB The Plant Cell, Vol. 9 (1997) 425-439

EXAMINER

DATE CONSIDERED

*EXAMINER: V Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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FORM PTO-1449 (REV. 7-85) U.S. DEFEMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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December 12, 2001

CONFIRMATION

NO. TBA

Group TBA

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

RECEIVED

Box	DB	Ryan, C.A., The search for the proteinase inhibitor-inducing factor, PIIF Plant Molecular Biology, Vol. 19 (1992) 123-133 APR 1 1 2002
	DC	Service, R.F., Closing In on a Stomach-Sparing Aspirin Substitute Science, Vol. 273 (1996) 1660 TECH CENTER 1600/290
	DD	Shah et al., Characterization of a Salicylic Acid-Insensitive Mutant (sai1) of Arabidopsis thaliana, Identified in a Selective Screen Utilizing the SA-Inducible Expression of the tms2 Gene Molecular Plant-Microbe Interactions, Vol. 10 (1997) 69-78
	DE	Shirasu, et al., Salicylic Acid Potentiates an Agonist-Dependent Gain Control That Amplifies Pathogen Signals in the Activation of Defense Mechanisms Plant Cell, Vol. 9 (1997) 261-270
	DF	Shulaev, et al., Is Salicylic Acid a Translocated Signal of Systemic Acquired Resistance in Tobacco? The Plant Cell, Vol. 7 (1995) 1691-1701
7	DG	Simoens, et al., Isolation of genes expressed in specific tissues of Arabidopsis thaliana by differential screening of a genomic library Gene, Vol. 67 (1988) 1-11
	DH	Staswick, et al., Methyl jasmonate inhibition of root growth and induction of a leaf protein are decreased in an Arabidopsis thaliana mutant Proceedings of the National Academy of Sciences USA, Vol. 89 (1992) 6837-6840
	DI	Sun, et al., Both Amino- and Carboxyl-Terminal Sequences within I/B(Regulate Its Inducible Degradation Molecular and Cellular Biology, Vol. 16 (1996) 1058-1065
	Dì	Tewari, et al., Sequence of rat RL/IF-1 encoding IKB@-like activity and comparison with related proteins containing notch-like repeats Nucleic Acids Research, Vol. 20 (1992) 607
	DK	Traenckner, E.Britta-Mareen et al., Phosphorylation of human I/B-(of serines 32 and 36 controls I/B-(proteolysis and NF-/B activation in response to diverse stimuli The European Molecular Biology Organization Journal, Vol. 14 (1995) 2876-2883
	DL	Uknes et al., Acquired Resistance in Arabidopsis The Plant Cell, Vol. 4 (1992) 645-656
	DM	Uknes et al., Regulation of Pathogenesis-Related Protein-1a Gene Expression in Tobacco The Plant Cell, Vol. 5 (1993) 159-169
Fax	DN	Uknes et al., Biological Induction of Systemic Acquired Resistance in Arabidopsis Molecular Plant-Microbe Interactions, Vol. 6 (1993) 692-698

EXAMINER

MATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not chetion is in conformance with MPEP 809: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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December 12, 2001

CONFIRMATION

NO. TBA

Group TBA

Page 8 of 8

OTHER DOCUMENTS (Including Author, Title, Date, Pertine

ARC	Œο	Uknes, et al., Reduction of risk for growers: methods for the development of disease-resistant-emps New Phytologist, Vol. 133 (1996) 3-10
	DP	Van Antwerp, et al., Suppression of TNF-{-Induced Apoptosis by NF-LB Science, Vol. 274 (1996) 787-789
	DQ	Vernooij, et al., Salicylic Acid Is Not the Translocated Signal Responsible for Inducing Systemic Acquired Resistance but Is Required in Signal Transduction The Plant Cell, Vol. 6 (1994) 959-965
	DR	Vernooij, et al., 2,6-Dichloroisonicotinic Acid-Induced Resistance to Pathogens Without the Accumulation of Salicylic Acid Molecular Plant-Microbe Interactions, Vol. 8 (1995) 228-234
	DS	Verwoerd, et al., A small-scale procedure for the rapid isolation of plant RNAs Nucleic Acids Research Vol. 17 (1989) 2362
	DT	Vos et al., AFLP: a new technique for DNA fingerprinting Nucleic Acids Research, Vol. 23 (1995) 4407-4414
	DU	Wang, et al., TNF- and Cancer Therapy-Induced Apoptosis: Potentiation by Inhibition of NF-LB Science, Vol. 274 (1996) 784-787
	DV	Ward, E.W.B., Suppression of metalaxyl activity by glyphosate: evidence that host defence mechanisms contribute to metalaxyl inhibition of Phytophthora megasperma f. sp. glycinea in soybeans Physiological Plant Pathology, Vol. 25 (1984) 381-386
	DW	Ward, et al., Glyceollin Production Associated with Control of Phytophthora Rot of Soybeans by the Systemic Fungicide, Metalaxyl Phytopathology, Vol. 70 (1980) 738-740
	DX	Ward, et al., Coordinate Gene Activity in Response to Agents That Induce Systemic Acquired Resistance The Plant Cell, Vol. 3 (1991) 1085-1094
	DY	Weymann, et al., Suppression and Restoration of Lesion Formation in Arabidopsis Isd Mutants The Plant Cell, Vol. 7 (1995) 2013-2022
	DZ	Cao,H., et al., (1997) GenBank Accession No.: U76707, [online] http://www.ncbi.nlm.nih.gov/entrez/
RR	ΈA	Newman, T., et al. (1994) GenBank Accession No.: T22612 [online] http://www.ncbi.nlm.nih.gov/entrez/

EXAMINER

DATE CONSIDERED

Initial of reference considered; whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in *EXAMINER: conformance and not considered. Include a copy of this form with the next communication to applicant.